



## Pond, Robert

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**From:** Cyrus Bharucha [cbharucha@cspatents.com]  
**Sent:** Friday, April 10, 2009 3:31 PM  
**To:** Pond, Robert  
**Subject:** RE: 09/945441 (OIC0045US)

**Attachments:** OIC0045US Proposed Amendments 4-10-09 - v2.doc



OIC0045US  
sed Amendm

-----Original Message-----

From: Cyrus Bharucha  
Sent: Friday, April 10, 2009 1:18 PM  
To: Pond, Robert  
Subject: 09/945441 (OIC0045US)

Dear Examiner Pond,

Please see attached proposed examiner's amendment.

Best regards,  
-Cyrus Bharucha

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1. (PROPOSED) A computer implemented method comprising:  
receiving a template comprising identifiers and operators, wherein[[:]]  
the identifiers identify one or more component products from a set of component products, and  
the identified component products comprise a first component product; and  
[[, and]]  
~~generating~~ customizing, using a processor, a ~~customizable~~ class rule based on the identifiers and on relationships associated with the operators, [[:]] wherein  
the ~~customizable~~ customized class rule indicates at least one configuration restriction for at least one customizable product.
2. (PROPOSED) The computer implemented method of claim 68, comprising:  
determining not to associate the first component product with the customizable product if  
the ~~customizable~~ customized class rule limits association of the first component product with the customizable product.
3. (PROPOSED) The computer implemented method of claim 68, comprising:  
determining to associate the first component product with the customizable product if the  
~~customizable~~ customized class rule allows association of the first component product with the customizable product;  
associating the first component product with the customizable product;  
determining to associate a second component product with the customizable product  
upon the associating the first component product if the ~~customizable~~ customized class rule requires association of the first component product with the second component product; and  
associating the second component product with the customizable product.
4. (Canceled)

5. (Previously presented) The computer implemented method of claim 1, comprising:  
providing a user interface for each component product in the set of component products,  
wherein the user interface comprises a theme user interface, a control user  
interface, and a group user interface.
6. (Canceled)
7. (Previously presented) The computer implemented method of claim 68, wherein two or  
more component products from the set of component products are associated with the  
customizable product.
8. **(PROPOSED)** A machine-readable medium that provides instructions recorded on a  
computer-readable storage medium and executable by a set of one or more processors to cause  
the set of one or more processors to perform operations comprising:  
receiving a template comprising identifiers and operators, wherein~~[[;]]~~  
the identifiers identify one or more component products from a set of component  
products, and  
the identified component products comprise a first component product, and  
~~generating~~ customizing a ~~customizable~~ class rule based on the identifiers and on  
relationships associated with the operators, ~~[[;]]~~ wherein  
the ~~customizable~~ customized class rule indicates at least one configuration  
restriction for at least one customizable product.
9. **(PROPOSED)** The machine-readable medium of claim 69, the operations comprising:  
determining not to associate the first component product with the customizable product if  
the ~~customizable~~ customized class rule limits association of the first component  
product with the customizable product.

10.     **(PROPOSED)** The machine-readable medium of claim 69, the operations comprising:  
  
          determining to associate the first component product with the customizable product if the **customizable customized** class rule allows association of the first component product with the customizable product;  
  
          associating the first component product with the customizable product;  
  
          determining to associate a second component product to the customizable product upon the associating the first component product if the **customizable customized** class rule requires associating the first component product with the second component product; and  
  
          associating the second component product with the customizable product.
11.     (Canceled)
12.     (Previously presented) The machine-readable medium of claim 69, wherein the providing the set of component products comprises providing a user interface for each component product in the set of component products.
13.     (Previously presented) The machine-readable medium of claim 12, wherein the user interface comprises a theme user interface, a control user interface, and a group user interface.
14.     (Previously presented) The machine-readable medium of claim 69, wherein two or more component products from the set of component products are associated with the customizable product.

15. **(PROPOSED)** A computer implemented method comprising:
- receiving a template comprising identifiers and operators, wherein
- the identifiers identify component products from a set of component products, and
- generating customizing, using a processor,** a set of **customizable** class rules based on the identifiers and on relationships associated with the operators, wherein the set of **customizable customized** class rules define at least one relationship among two or more of the identified component products;
- designating a customizable product; and
- associating a first component product with the customizable product based on a **customizable customized** class rule, among the set of **customizable customized** class rules, that applies to the customizable product.
16. **(PROPOSED)** The computer implemented method of claim 15, comprising selecting a second component product to add to the customizable product, wherein the selecting is based on the first component product and at least one of the **customizable customized** class rules.
17. (Previously presented) The computer implemented method of claim 15, comprising selecting two or more component products associated with the customizable product.
18. **(PROPOSED)** The computer implemented method of claim 15, comprising associating a second component product with the customizable product upon the selecting based on at least one of the **customizable customized** class rules.
- 19-23. (Canceled)

24. **(PROPOSED)** A machine-readable medium that provides instructions recorded on a computer-readable storage medium and executable by a set of one or more processors to cause the set of one or more processors to perform operations comprising:

receiving a template comprising identifiers and operators, wherein[[:]]

the identifiers identify component products from a set of component products, and

**generating customizing** a set of **customizable** class rules based on the identifiers and on relationships associated with the operators, wherein the set of **customizable customized** class rules define at least one relationship among two or more of the identified component products;

designating a customizable product; and

associating a first component product with the customizable product based on a

**customizable customized** class rule, among the set of **customizable customized** class rules, that applies to the customizable product.

25. (Previously presented) The machine-readable medium of claim 24, wherein the operations comprise selecting from a set of alternative component products to add to the customizable product, wherein the selecting is based upon the first component product.

26. (Previously presented) The machine-readable medium of claim 24, wherein the customizable product rules comprise pricing information and allow for discount pricing, and the operations comprise selecting two or more component products associated with the customizable product.

27. **(PROPOSED)** The machine-readable medium of claim 24, wherein the operations comprise associating a second component product with the customizable product upon the selecting based on at least one of the **customizable customized** class rules.

28-30. (Canceled)

31. (Previously presented) The machine-readable medium of claim 27, wherein the customizable product rule comprises component product information to guide a consumer in a selection of the customizable product, and the component product is displayed in a user interface.

32. (Canceled)

33. **(PROPOSED)** An apparatus comprising:

a memory to store a set of one or more customizable product classes; and

a processor, coupled to the memory and configured to~~[[:]]~~

identify a set of component products,

receive a template comprising identifiers and operators, wherein~~[[:]]~~

the identifiers identify one or more component products from a set of  
component products, and

the identified component products comprise a first component product,  
and

~~generate~~ customize a ~~eustomizable~~ class rule based on the identifiers and on  
relationships associated with the operators, wherein

the ~~eustomizable~~ customized class rule indicates at least one  
configuration restriction for at least one customizable product.

34. **(PROPOSED)** The apparatus of claim 70, wherein the processor is configured to determine not to associate the first component product with the customizable product if the ~~eustomizable~~ customized class rule limits association of the first component product with the customizable product.



35.     **(PROPOSED)** The apparatus of claim 70, wherein the processor is configured to:
- determine to associate the first component product with the customizable product if the **customizable customized** class rule allows association of the first component product with the customizable product; and
- associate the first component product with the customizable product.
- 36-38. (Canceled)
39.     (Previously presented) The apparatus of claim 70, wherein two or more component products from the set of component products are associated with the customizable product.
40.     (Canceled)
41.     **(PROPOSED)** The computer implemented method of claim 1, comprising:
- converting the **customizable customized** class rule from a natural language format into a low-level computer language.
42.     **(PROPOSED)** The computer implemented method of claim 1, wherein the **customizable customized** class rule comprises an expression relating to an attribute of a component product.
43.     **(PROPOSED)** The computer implemented method of claim 1, wherein the **customizable customized** class rule defines at least one relationship among the customizable product classes.
44.     (Canceled)
45.     **(PROPOSED)** The machine-readable medium of claim 8, the operations comprising:
- converting the **customizable customized** class rule from a natural language format into a low-level computer language.

46. (PROPOSED) The machine-readable medium of claim 8, wherein the **customizable** **customized** class rule comprises an expression relating to an attribute of a component product.
47. (PROPOSED) The machine-readable medium of claim 8, wherein the **customizable** **customized** class rule defines at least one relationship among the customizable product classes.
48. (PROPOSED) The computer implemented method of claim 15, comprising:  
converting the **customizable** **customized** class rules from a natural language format into  
a low-level computer language.
- 49-54. (Canceled)
55. (Previously presented) The computer implemented method of claim 68, comprising:  
generating, in response to the request to associate, a recommendation message based on  
the customized class rule.
56. (Previously presented) The computer implemented method of claim 55, comprising:  
transmitting the recommendation message to a user, wherein the request to associate is  
received from the user.
57. (Previously presented) The computer implemented method of claim 1, wherein the  
identifiers comprise a user-specified text identifier, and the operators comprise a text operator  
that applies to the user-specified text identifier.
58. (Canceled)
59. (Previously presented) The computer implemented method of claim 57, wherein the text  
operator comprises at least one of: a requirement operator, a conditional operator, a conjunction  
operator, and an exclusion operator.

60. (Previously presented) The computer implemented method of claim 57, wherein the text operator comprises at least one of: an addition operator, a subtraction operator, a multiplication operator, and an absolute value operator.

61. (Previously presented) The computer implemented method of claim 57, wherein the user-specified text identifier refers to an account status and the text operator comprises an equivalence operator.

62. (Previously presented) The computer implemented method of claim 57, wherein the user-specified text identifier refers to at least one of: a product class, a cardinal number, a customer evaluation, a transaction upgrade, a customer attribute, or a geographic location.

63. (Previously presented) The machine-readable medium of claim 69, the operations comprising:

generating, in response to the request to associate, a recommendation message based on  
the customized class rule, wherein the request to associate is received from a user;  
and  
transmitting the recommendation message to the user.

64. (Previously presented) The machine-readable medium of claim 8, wherein the identifiers comprise a user-specified text identifier, and the operators comprise a text operator that applies to the user-specified text identifier.

65. (Previously presented) The computer implemented method of claim 15, wherein the identifiers comprise a user-specified text identifier, and the operators comprise a text operator that applies to the user-specified text identifier.

66. (Previously presented) The machine-readable medium of claim 24, wherein the identifiers comprise a user-specified text identifier, and the operators comprise a text operator that applies to the user-specified text identifier.

67. (Previously presented) The apparatus of claim 33, wherein the identifiers comprise a user-specified text identifier, and the operators comprise a text operator that applies to the user-specified text identifier.
68. **(PROPOSED)** The computer implemented method of claim 1, comprising:  
receiving, during a runtime session, a request to designate a customizable product;  
receiving, during the runtime session, a request to associate the first component product with the customizable product; and  
determining whether to associate the first component product with the customizable product based on the **customizable customized** class rule.
69. **(PROPOSED)** The machine-readable medium of claim 8, the operations comprising:  
receiving, during a runtime session, a request to designate a customizable product;  
receiving, during the runtime session, a request to associate the first component product with the customizable product; and  
determining whether to associate the first component product with the customizable product based on the **customizable customized** class rule.
70. **(PROPOSED)** The apparatus of claim 33, wherein the processor is configured to:  
receive, during a runtime session, a request to designate a customizable product;  
receive, during the runtime session, a request to associate the first component product with the customizable product; and  
determine whether to associate the first component product with the customizable product based on the **customizable customized** class rule.

71. (Previously presented) The computer implemented method of claim 1, comprising:
- receiving a list of values from a configuration expert for use in a batch rule; and
- generating the template using the list of values by filling in blanks from a blank template with the values in the received list of values.